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By Ted Martinez

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Hillman et al.

Title: CALCIUM-BINDING PROTEIN

Serial No.: To Be Assigned Filing Date: Herewith

Examiner: To Be Assigned Group Art Unit: To Be Assigned

Official Draftsman

Commissioner for Patents
Washington, D.C. 20231

SUBMISSION OF FORMAL DRAWINGS

Sir:

Transmitted herewith are Figures 1A, 1B, 1C, 2A, 2B, 3A, and 3B, as six (6) sheets of formal drawings for this application. Each sheet of drawing indicates the identifying indicia suggested in 37 CFR Section 1.84(c) on the reverse side of the drawings.

Applicants believe that no fee is due with this paper. However, if the Commissioner determines that a fee is necessary, the Commissioner is hereby authorized to charge any additional fees associated with this communication or credit any overpayment to Deposit Account No. **09-0108**. A duplicate copy of this communication is enclosed.

If there are any questions regarding the above, the Examiner is invited to call the undersigned at 650-855-0555.

Respectfully submitted,

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Limited Recognition (37 C.F.R. § 10.9(b)) attached

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| | | | | | | |
|----|------|-----|-----|-----|-----|-----|
| | 9 | 18 | 27 | 36 | 45 | 54 |
| 5' | GGA | GAG | CGG | ANG | NAN | TGG |
| | CCTG | CTG | CTG | TTG | CTA | CTG |
| L | L | L | L | L | R | H |
| | 63 | 72 | 81 | 90 | 99 | 108 |
| | GGG | GGC | CAT | GGC | CAG | GGG |
| A | G | P | H | G | Q | G |
| | 117 | 126 | 135 | 144 | 153 | 162 |
| | GCA | GGC | CCT | CAT | GGG | AGG |
| | | | | | CAC | CAG |
| | | | | | GCC | GCG |
| | | | | | CCC | CTG |
| | | | | | AGC | GAC |
| | | | | | GCT | GCT |
| | | | | | | D |
| | | | | | | A |
| | 171 | 180 | 189 | 198 | 207 | 216 |
| | CCC | CAT | GAT | GAC | GGC | AAC |
| P | H | D | D | A | CAC | TTC |
| | | | | | GGG | CAG |
| | | | | | TAC | TAC |
| | | | | | GAC | CAT |
| | | | | | GAG | GCT |
| | | | | | GCT | TTC |
| | | | | | CTG | GGA |
| | | | | | | |
| | 225 | 234 | 243 | 252 | 261 | 270 |
| | CGG | GAA | GAA | GAC | CAA | TTC |
| R | E | V | A | K | E | GAA |
| | | | | | F | CCA |
| | | | | | D | ACC |
| | | | | | Q | CTC |
| | | | | | L | AGC |
| | | | | | T | GAA |
| | | | | | P | AGC |
| | | | | | E | CAG |
| | | | | | E | GCC |
| | | | | | S | CGT |
| | | | | | Q | |
| | | | | | A | |
| | | | | | R | |
| | 279 | 288 | 297 | 306 | 315 | 324 |
| | CTG | GGG | ATC | GTG | GAC | CGC |
| L | G | R | I | V | CGC | GGG |
| | | | | D | ATG | GAC |
| | | | | R | G | GGC |
| | | | | M | D | TGG |
| | | | | | A | GTG |
| | | | | | G | |
| | | | | | D | |
| | | | | | G | |
| | | | | | W | |
| | | | | | V | |
| | 333 | 342 | 351 | 360 | 369 | 378 |
| | TCG | CTG | GCC | GGC | TGG | ATC |
| S | L | A | E | L | R | GGG |
| | | | | | A | GGG |
| | | | | | W | CGG |
| | | | | | I | CGG |
| | | | | | A | ATA |
| | | | | | H | CGG |
| | | | | | T | |
| | | | | | Q | |
| | | | | | Q | |
| | | | | | R | |
| | | | | | H | |
| | | | | | I | |
| | | | | | R | |

FIGURE 1A

| | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| GAC | TCG | GTG | AGC | GCG | GCC | TGG | GAC | ACG | TAC | GAC | ACG | CGC | GAC | GGG | CGT | GTG |
| D | S | V | S | A | A | W | D | T | Y | D | T | D | R | D | G | R |
| G | W | E | E | L | R | N | A | T | Y | G | H | Y | A | P | G | V |
| 495 | 504 | 504 | 513 | 513 | 513 | 522 | 522 | 522 | 522 | 531 | 531 | 540 | | | | |
| TIT | CAT | GAC | GTG | GAG | GAT | GCA | GAG | ACC | TAC | AAA | AAG | ATG | CTG | GCT | CGG | GAC |
| F | H | D | V | E | D | A | E | T | Y | K | M | L | A | R | D | E |
| 549 | 558 | 558 | 567 | 567 | 567 | 576 | 576 | 576 | 576 | 585 | 585 | 594 | | | | |
| CGG | CGT | TTC | CGG | GTG | GCC | GAC | CAG | GAT | GGG | GAC | TCG | ATG | GCC | ACT | CGA | GAG |
| R | R | F | R | V | A | D | Q | D | G | D | S | M | A | T | R | E |
| 603 | 612 | 612 | 621 | 621 | 621 | 630 | 630 | 630 | 630 | 639 | 639 | 648 | | | | |
| CTG | ACA | GCC | TTC | CTG | CAC | CCC | GAG | TTC | CCT | CAC | ATG | CGG | GAC | ATC | GTG | ATT |
| L | T | A | F | L | H | P | E | F | P | H | M | R | D | I | V | I |
| 657 | 666 | 666 | 675 | 675 | 675 | 684 | 684 | 684 | 684 | 693 | 693 | 702 | | | | |
| GCT | GAA | ACC | CTG | GAG | GAC | CTG | GAC | AGA | AAC | AAA | GAT | GGC | TAT | GTC | CAG | GTG |
| A | E | T | L | E | D | L | D | R | N | K | D | G | Y | V | Q | V |

FIGURE 1B

| Period | Mean | SD | Min | Max |
|-----------|------|------|------|------|
| 1980-1984 | 1.00 | 0.00 | 1.00 | 1.00 |
| 1985-1989 | 1.00 | 0.00 | 1.00 | 1.00 |
| 1990-1994 | 1.00 | 0.00 | 1.00 | 1.00 |
| 1995-1999 | 1.00 | 0.00 | 1.00 | 1.00 |
| 2000-2004 | 1.00 | 0.00 | 1.00 | 1.00 |
| 2005-2009 | 1.00 | 0.00 | 1.00 | 1.00 |
| 2010-2014 | 1.00 | 0.00 | 1.00 | 1.00 |
| 2015-2019 | 1.00 | 0.00 | 1.00 | 1.00 |

FIGURE 1C

| | | |
|-----|---|------------|
| 1 | M M W - - - - R P S V U L L L L L L L L L L L R H G A Q G K P - S P D A G P H G Q G R V H | 2509570 |
| 1 | M A R G G R G R R L G G R P P E D N Q S - F Q Y D H E A F L G K E D S K T F D Q L T P D E | GI 1262329 |
| 1 | M A R G G R - - - L G L A L G L L A L V L A - - - L R A K P T V R K E R V V R | GI 220582 |
| 36 | O A A P L S D A P H D D A H G N F Q Y D H E A F L G R E V A K E F D Q L T P E E | 2509570 |
| 41 | P D S E L L G E R P P E D N Q S - F Q Y D H E A F L G K E D S K T F D Q L T P D E | GI 1262329 |
| 35 | P D S E L L G E R P P E D N Q S - F Q Y D H E A F L G K E D S K T F D Q L T P D E | GI 220582 |
| 76 | S O A R L G R I I V D R M D R A G D G D G W V S L A E L R A W I A H T Q Q R H I R | 2509570 |
| 80 | S K E R L G K I V D R I D - - N D G D G F V T T E E L K T W I K R V Q K R Y I F | GI 1262329 |
| 74 | S K E R L G K I V D R I D - - S D G D G L V T T E E L K L W I K R V Q K R Y I Y | GI 220582 |
| 116 | D S V S A A W D T Y D T D R D G R V G W E E L R N A T Y G H Y - A P G E E F H D | 2509570 |
| 118 | D N V A K V W K D Y D R D K D D K I S W E E Y K Q A T Y G Y Y L G N P A E F H D | GI 1262329 |
| 112 | D N V A K V W K D Y D R D K D E K I S W E E Y K Q A T Y G Y Y L G N P A E F H D | GI 220582 |
| 155 | V E D A E T Y K K M L A R D E R R F R V A D O D G D S M A T R E E L T A F L H P | 2509570 |
| 158 | S S D H H T F K A A D L N G D I L T A T R E E F T A F L H P | GI 1262329 |
| 152 | S S D H H T F K K M L P R D E R R F K A S D L D G D I L T A T R E E F T A F L H P | GI 220582 |

FIGURE 2A

FIGURE 2B

| | | |
|-----|---|------------|
| 195 | E F P H M R D I V I A E T L E D L D R N K D G Y V Q O V E E Y I A D L Y S A E P | 2509570 |
| 198 | E E F E H M K E I V V L E T L E D I D K N G D G F V D Q D E Y I A D M F S H E E | GI 1262329 |
| 192 | E E F E H M K E I V V L E T L E D I D K N G D G F V D Q D E Y I A D M F S H E D | GI 220582 |
| 235 | G E E E P A W V Q O T E R Q Q F R D F R D L N K D G H L D G S E V G H W V L P P A | 2509570 |
| 238 | N G P E P D W V L S E R E Q F N E F R D L N K D G K L D K D E I R H W T L P Q D | GI 1262329 |
| 232 | N G P E P D W V L S E R E Q F N D F R D L N K D G K L D K D E I R H W T L P Q D | GI 220582 |
| 275 | Q D O P I L V E A N H L L H E S D T D K D G R L S K A E I L G N W N M F V G S Q A | 2509570 |
| 278 | Y D H A Q A E A R H L V Y E S D K N K D E K L T K E E I L E N W N M F V G S Q A | GI 1262329 |
| 272 | Y D H A Q A E A R H L V Y E S D K N K D E M L T K E E I L D N W N M F V G S Q A | GI 220582 |
| 315 | T N Y G E D L T R H H D E L | |
| 318 | T N Y G E D L T K N H D E L | |
| 312 | T N Y G E D L T K N H D E L | |

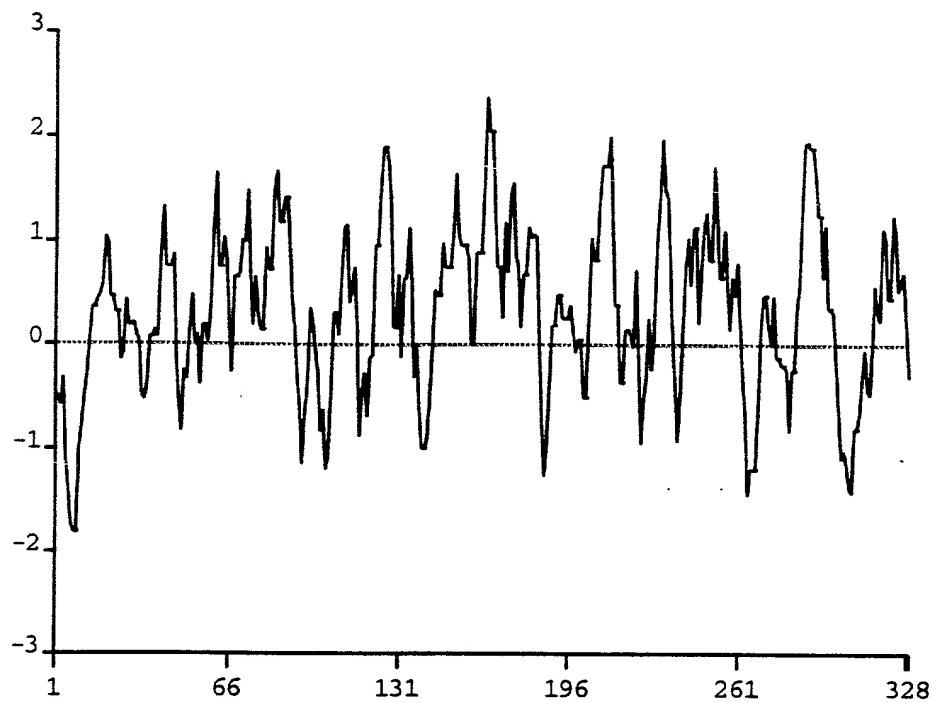


FIGURE 3A

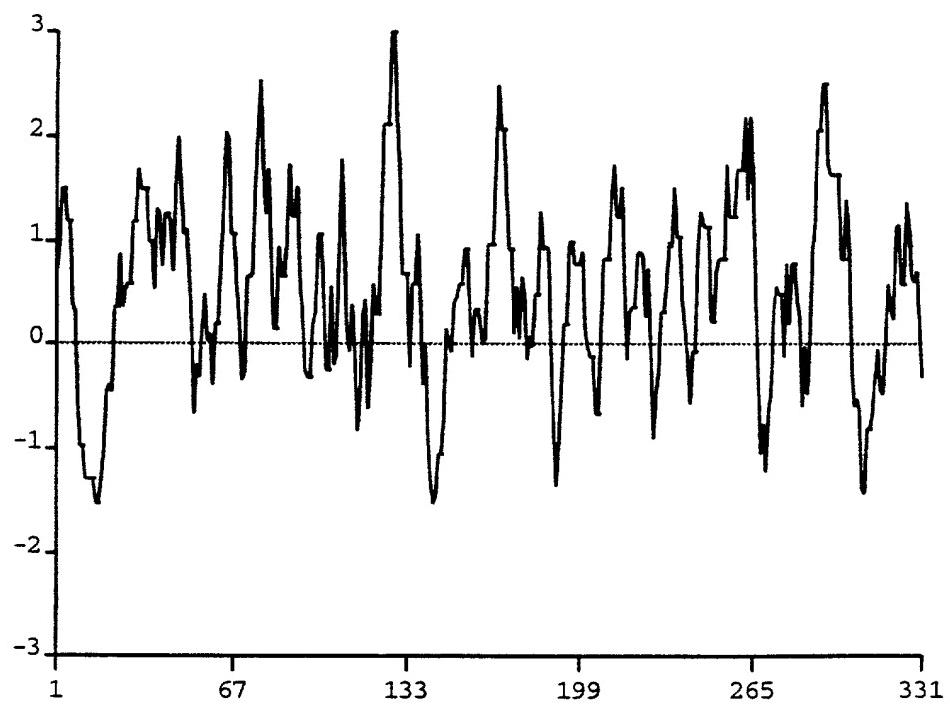


FIGURE 3B